AMENDMENTS TO THE CLAIMS

Claims 1-15 (Cancelled)

- 16. (New) A method for the preparation of a styrene/propylene copolymer comprising:
- (a) providing a catalyst system comprising a metallocene catalyst component characterized by formula I:

$R''(CpR_m)(FluR'_n)MQ_2$

wherein:

Cp comprises a cyclopentadienyl ring; Flu comprises a fluorenyl ring; R" comprises a structural bridge imparting stereorigidity to the component; each R is the same or different and is an organic group; m is an integer of from 0-4; each R' is the same or different and is an organic group; n is an integer of from 0-8; M is a metal atom from Group 4 of the Periodic Table or is vanadium; and each Q is a hydrocarbon having from 1-20 carbon atoms or is a halogen;

or formula II:

$$R''(FluR'_n)XR^{\$}MQ_2$$

wherein:

R(FluR'_n), R", M and Q are as defined hereinabove; R^{\$} is hydrogen or a hydrocarbyl group having from 1-20 carbon atoms; and X is a heteroatom from group 15 or 16 of the Periodic Table;

- (b) contacting said catalyst system with styrene and propylene under polymerization conditions to produce a styrene/propylene copolymer; and
 - (c) recovering said styrene/propylene copolymer.

- 17. (New) The method of claim 16 wherein R\$ is a tertiary butyl group.
- 18. (New) The method of claim 16 wherein said metallocene catalyst component is characterized by formula I and wherein at least one group R is positioned on the cyclopentadienyl such that it is distal to the bridge R", and comprises a bulky group of the formula ZR*3 in which Z is an atom from Group 14 of the Periodic Table and each R* is the same or different and is chosen from a hydrogen or a hydrocarbyl group having from 1-20 carbon atoms.
- 19. (New) The method of claim 18 wherein the cyclopentadienyl ring of formula I comprises a substituent ZR*₃ distal to the bridge R" and a substituent YR#₃ proximal to the bridge and non-vicinal to ZR*₃, wherein Y is an atom from Group 14 of the Periodic Table, and each R# is the same or different and is chosen from a hydrogen or a hydrocarbyl group having from 1-7 carbon atoms.
- 20. (New) The method of claim 19 wherein at least one of Z and Y comprises carbon or silicon.
- 21. (New) The method of claim 19 wherein the ZR*₃ is selected from the group consisting of C(CH₃)₃, C(CH₃)₂Ph, CPh₃, and Si(CH₃)₃.
- 22. (New) The method of claim 21 wherein YR#₃ comprises a methyl group or a trimethyl silyl group.
- 23. (New) The method of claim 22 wherein ZR*₃ comprises C(CH₃)₃, C(CH₃)₂Ph, CPh₃, and Si(CH₃)₃.

- 24. (New) The method of claim 16 wherein said metallocene catalyst component is characterized by formula II and wherein X is a heteroatom from Group 15 of the Periodic Table.
 - 25. (New) The method of claim 24 wherein X is N or P.
 - 26. (New) The method of claim 25 wherein R^{\$} is a tertiary butyl group.
- 27. (New) The method of claim 26 wherein the fluorenyl group of formula II is disubstituted with tertiary butyl groups in the 2 and 7 or 3 and 6 positions of the fluorenyl group.
- 28. **(New)** The method of claim 27 wherein said tertiary butyl groups are in the 3 position and the 6 position of said fluorenyl group.
- 29. **(New)** The method of claim 16 wherein the fluorenyl group Flu in formula I or formula II is symmetrically substituted with substituents at positions 3 and 6 or positions 2 and 7 of the symmetrically substituted fluorenyl group.
- 30. (New) The method of claim 29 wherein said fluorenyl group is substituted with substituents at the 3 and 6 positions.
- 31. (New) The method of claim 30 wherein said fluorenyl group is substituted with tertiary butyl groups.
- 32. **(New)** The method of claim 16 wherein said styrene/propylene copolymer has a styrene content within the range of 2-50 wt.%.
- 33. (New) The method of claim 32 wherein said styrene/propylene copolymer has a styrene content within the range of 5-25 wt.%.